

# Curricular Action Workflow



Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - Change Course Proposal Form**

## Change Course Proposal Form

**Submitted on 03/21/2022 by S  
Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO122 General Biology II

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Current online catalog description:

## BIO 122 General Biology II

Prerequisite: eligibility for both ENG 110 and MTH 135. Recommended Prerequisite: BIO 121. Second half of two-semester introductory biology sequence for biology majors and minors. Introduction to the biology of organisms including evolutionary history, diversity, structure, and function of major taxa; and ecology. Cannot be taken Pass/Not Pass. A grade of "C" or better is required in this course in order to take BIO 235, BIO 320, BIO 367 or BIO 368. 4(3-3) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

## BIO 122 General Biology II

Prerequisite: eligibility for ~~both~~ ENG 110 ~~and MTH 135~~. Recommended Prerequisite: BIO 121. Second half of two-semester introductory biology sequence for biology majors and minors. Introduction to the biology of organisms including evolutionary history, diversity, structure, and function of major taxa; and ecology. Cannot be taken Pass/Not Pass. A grade of "C" or better is required in this course in order to take BIO 235, BIO 320, BIO 367 or BIO 368. 4(3-3) F,S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- |   |  |                                      |  |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code                | <input type="checkbox"/> Course Number ( <u>Check Availability</u> ) | <input type="checkbox"/> Title       | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity                                 | <input type="checkbox"/> Description |  |

## Reason for proposed change

MTH 135 is no longer being offered. It was decided that the MTH pre-requisite was an unnecessary barrier to students needing to register for this course.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information
- Other (be specific):

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

03/21/2022

**Current Status:**

College Council Review

**Proposal Progress:**

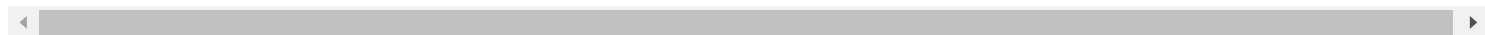
03/21/2022 - Submitted by Department Head (S Mathis)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO235 Genetics

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Current online catalog description:

BIO 235 Genetics

Prerequisite: BIO 121 or BMS 110 and 111; and CHM 116 and 117 or CHM 160 and 161 (recommended) or higher, and MTH 135 or higher. Principles of classical and molecular genetics, epigenetics and biotechnology. Course content is foundational to concepts of modern biology, recommended for all majors in life science-related fields. 3(3-0) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

BIO 235 Genetics

Prerequisite: BIO 121 or BMS 110 and 111; and CHM 116 and 117 or CHM 160 and 161 (recommended) or higher, and MTH 13~~5~~ or higher. Principles of classical and molecular genetics, epigenetics and biotechnology. Course content is foundational to concepts of modern biology, recommended for all majors in life science-related fields. 3(3-0) F,S

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- |   |  |                                      |  |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code                | <input type="checkbox"/> Course Number ( <u>Check Availability</u> ) | <input type="checkbox"/> Title       | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity                                 | <input type="checkbox"/> Description |  |

Reason for proposed change

MTH 135 is no longer being offered. MTH 136 covers many of the same topics.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

Routine or annual review/assessment of curriculum

Faculty

Student Input

Input

Accreditation/certification compliance

Review of catalog information

Other (be specific):

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

03/21/2022

**Current Status:**

College Council Review

**Proposal Progress:**

03/21/2022 - Submitted by Department Head (S Mathis)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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## Change Course Proposal Form

**Submitted on 03/21/2022 by S Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO367 General Ecology

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Current online catalog description:

BIO 367 General Ecology

Prerequisite: BIO 122 and MTH 135 or higher. Introduction to the basic concepts of ecology. Public Affairs Capstone Experience course. 3(3-0) F,S,Su

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

BIO 367 General Ecology

Prerequisite: BIO 122 ~~and MTH 135 or higher~~. Introduction to the basic concepts of ecology. Public Affairs Capstone Experience course. 3(3-0) F,S,Su

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What is changing? Check all boxes that apply.

- |   |  |                                      |  |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code                | <input type="checkbox"/> Course Number ( <u>Check Availability</u> ) | <input type="checkbox"/> Title       | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity                                 | <input type="checkbox"/> Description |  |

Reason for proposed change

MTH 135 is no longer being offered. It was decided that the MTH requirement is an unnecessary barrier to some student needing to enroll in the course and that students should be able to be successful without this prerequisite.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Routine or annual review/assessment of curriculum | <input checked="" type="checkbox"/> Faculty Input      | <input type="checkbox"/> Student Input |
| <input type="checkbox"/> Accreditation/certification compliance            | <input type="checkbox"/> Review of catalog information |  |
| <input type="checkbox"/> Other (be specific):                              |  |  |



Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

03/21/2022

**Current Status:**

College Council Review

**Proposal Progress:**

03/21/2022 - Submitted by Department Head (S Mathis)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# MAKE YOUR COURSE CHANGE EASIER

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# Curricular Action Workflow



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## Change Course Proposal Form

**Submitted on 03/29/2022 by S Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO515 Evolution

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Enter parallel course number

BIO616 Evolution

How do these classes differ?






BIO 616 students have additional assignments.

Current online catalog description:

BIO 515 Evolution

Prerequisite: BIO 235 and BIO 236 or BMS 230 or BMS 231; and MTH 135 or higher. A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of specialization, and methods for estimating evolutionary relationships. May be taught concurrently with BIO 616. Cannot receive credit for both BIO 616 and BIO 515. 3(3-0) F,S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

BIO 515 Evolution

Prerequisite: BIO 235 and BIO 236 or BMS 230 or BMS 231; and MTH ~~135~~**136** or higher. A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of specialization, and methods for estimating evolutionary relationships. May be taught concurrently with BIO 616. Cannot receive credit for both BIO 616 and BIO 515. 3(3-0) F,S

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What is changing? Check all boxes that apply.

- |   |  |                                      |  |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code                | <input type="checkbox"/> Course Number ( <u>Check Availability</u> ) | <input type="checkbox"/> Title       | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity                                 | <input type="checkbox"/> Description |  |

Reason for proposed change

MTH 135 is no longer offered. MTH 136 covers many of the same concepts.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

Routine or annual review/assessment of curriculum  Faculty Input  Student Input

Accreditation/certification compliance  Review of catalog information

Other (be specific):

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

03/21/2022

**Current Status:**

College Council Review

**Proposal Progress:**

03/29/2022 - Submitted by Department Head (S Mathis)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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## Change Course Proposal Form

**Submitted on 03/21/2022 by S Mathis ([Aliciamathis@missouristate.edu](mailto:Aliciamathis@missouristate.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

BIO547 Water Resources

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Enter parallel course number

BIO647 Water Resources

How do these classes differ?

Graduate students have additional assignments.

Current online catalog description:

BIO 547 Water Resources

Prerequisite: BIO 122 or GLG 110 or GRY 142; and CHM 160 and CHM 161; and MTH 135. An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with GLG 547. Cannot receive credit for both BIO 547 and GLG 547. May be taught concurrently with BIO 647. Cannot receive credit for both BIO 547 and BIO 647. Public Affairs Capstone Experience course. 3(3-0) S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

BIO 547 Water Resources

Prerequisite: BIO 122 or GLG 110 or **171 or** GRY 142; ~~and CHM 160 and CHM 161; and MTH 135.~~ An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with GLG 547. Cannot receive credit for both BIO 547 and GLG 547. May be taught concurrently with BIO 647. Cannot receive credit for both BIO 547 and BIO 647. Public Affairs Capstone Experience course. 3(3-0) S

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What is changing? Check all boxes that apply.

- Course Code       Course Number (Check Availability)       Title       Prerequisite
- Credit Hours/Contact Hours       Periodicity       Description

Reason for proposed change

MTH 135 is no longer being offered. It was decided that GLG 171 is an appropriate alternative prerequisite and that the MTH and CHM pre-requisites are an unnecessary barrier to students wishing to register for this course.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

Note: the course is also offered as GLG 547, so the changes were also discussed with the instructor for GLG 547. GGP will be submitting a course change proposal as well.

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

03/21/2022

**Current Status:**

College Council Review

**Proposal Progress:**

03/21/2022 - Submitted by Department Head (S Mathis)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# MAKE YOUR COURSE CHANGE STATEMENT.



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# Curricular Action Workflow



Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - New Course Proposal Form**

## New Course Proposal Form

**Submitted on 03/04/2022 by Ajay Katangur ([AjayKatangur@MissouriState.edu](mailto:AjayKatangur@MissouriState.edu)).**

**\*All fields require input**

- New COURSE
- New REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing course number below

Course Code:

CSC

Course Number: ([Check Availability](#))

330

Course Title:

Introduction to Data Science

Will this course become part of a program?  No  Yes (A corresponding program change form must be submitted)

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Prerequisite/Co-requisite or enter 'None':

CSC 131

Catalog Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.)

An introduction to software and techniques used in data science. Topics will include sources of data, data preparation, data analysis, use of software tools, development of data analysis software, and ethical and legal considerations. May be taught concurrently with CSC 630. Cannot receive credit for both CSC 330 and CSC 630.

327/30000 character limit.

Credit Hours:

3 ▾

Lecture Contact Hours:

3 ▾

Lab Contact Hours:

0 ▾

**Note:** If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

- Fall
     
  Fall (even-numbered years only)
     
  Fall (odd-numbered years only)
- Spring
     
  Spring (even-numbered years only)
     
  Spring (odd-numbered years only)
- Summer
     
 On Demand only

**Complete Catalog Description:**

CSC 330 Introduction to Data Science

Prerequisite: CSC 131

An introduction to software and techniques used in data science. Topics will include sources of data, data preparation, data analysis, use of software tools, development of data analysis software, and ethical and legal considerations. May be taught concurrently with CSC 630. Cannot receive credit for both CSC 330 and CSC 630.

Credit hours: 3 Lecture contact hours: 3 Lab contact hours: 0

Typically offered: On Demand only

Include sample syllabus (list topics, course goals.) Use text box OR upload only file types of PDF, DOC or DOCX.

0/30000 character limit.

Attached [View Attachment](#)

Purpose of Course

Data science is a critical subject as there is a lot of demand for data scientists. and students majoring in computer science need exposure to this subject. Also recommended by our advisory board.

196/30000 character limit.

Relationship to Other Departments

None

4/30000 character limit.

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Enter parallel course number

CSC630 Introduction to Data Science

How do these classes differ?

Graduate students are expected to complete an extra project.

60/30000 character limit.

**New Course Resource Information**

Anticipated Average Enrollment per section:

30

Maximum Enrollment Limit per section:

35

Anticipated Average Enrollment per semester:

30

Maximum Enrollment Limit per semester:

35

Anticipated Average Enrollment per year:

60

Maximum Enrollment Limit per year:

70

Faculty Load Assignment (equated hours):

3

Is another course being deleted?  No  Yes

Select course number and title being deleted.

nullnull null

**What will this course require in the way of:**

**Additional library Holdings**

None

*4/30000 character limit.*

**Additional computer resources**

None

*4/30000 character limit.*

**Additional or remodeled facilities**

None

*4/30000 character limit.*

**Additional equipment or supplies**

None

*4/30000 character limit.*

**Additional travel funds**

None

*4/30000 character limit.*

**Additional faculty; general vs specialized**

None

*4/30000 character limit.*

Additional faculty; regular vs per-course

None

*4/30000 character limit.*

Other additional expenses

None

*4/30000 character limit.*

---

If additional faculty are not required, how will faculty be made available to teach this course?

We are already offering this course as CSC 630. We will cross-list with that course.

*84/30000 character limit.*

List names of current faculty qualified and available to teach this course

Lloyd Smith  
Jamil Saquer  
Mohammed Belkhouche

*44/30000 character limit.*

What is the anticipated source of students for this course?

Undergraduate Students

*22/30000 character limit.*

If from within the department, will students be taking this course in addition to or in place of other courses?

This is an elective course. They will be taking this course to satisfy the elective requirements.

98/30000 character limit.

If from outside the department, which courses in other departments would most likely be affected?)

None

4/30000 character limit.

Other comments:

None

4/30000 character limit.

What is the date that this new course was approved by departmental or program faculty?  
(MM/DD/YYYY)

03/02/2022

**Current Status:**

College Council Review

**Proposal Progress:**

03/08/2022 - Submitted by Department Head (Ajay Katangur)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# Computer Science 330: Introduction to Data Science

**Instructor:** TBD **Office:** CHEK 203 **Phone:** TBD **Email:**

**Class meeting times:** TBA

**Course Description:** An introduction to software and techniques used in data science. Topics will include sources of data, data preparation, data analysis, use of software tools, development of data analysis software, and ethical and legal considerations.

**Course Pre-requisites:** CSC 131

**Required Text:** *How to Think Like a Data Scientist.*, Miller, et al.,  
<https://runestone.academy/runestone/books/published/htmlads/index.html>.

## EDUCATIONAL OUTCOMES

1. Students will understand the interdisciplinary nature of data science
2. Students will be able to formulate questions that can be answered through data analysis
3. Students will be able to find and select appropriate data sets, where available
4. Students will be able to design and implement data analysis software
5. Students will understand ethical and legal issues in collection and use of data

## MAJOR TOPICS

1. Sources of data
2. Python ecosystem for data science
3. Visualizing data
4. Preparing data for analysis
5. Dealing with missing data
6. Programming for data analysis
7. Ethical and legal considerations

## ASSIGNMENTS

1. Write programs to analyze data
2. Read research literature and write summary reports
3. Group project and presentation

## EVALUATION

- |                              |     |                                   |     |
|------------------------------|-----|-----------------------------------|-----|
| 1. Homework                  | 40% | 3. In-class quizzes and exercises | 10% |
| 2. Tests (midterm and final) | 30% | 4. Group project and presentation | 20% |

**This class will not use +/- grading: your grade will be A, B, C, D, or F**

**Assignments must be turned in by the due date; late work will not be accepted**

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**Submitted on 03/08/2022 by Ajay Katangur ([AjayKatangur@MissouriState.edu](mailto:AjayKatangur@MissouriState.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

CSC399 Cooperative Education in Computer Science

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Current online catalog description:

CSC 399 Cooperative Education in Computer Science

Prerequisite: permission of department head. The opportunity to earn academic credit in a planned learning process that integrates academic training with a supervised work experience. Does not count toward a Computer Science minor. 1-3 D

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

CSC 399 Cooperative Education in Computer Science

Prerequisite: permission of department head. The opportunity to earn academic credit in a planned learning process that integrates academic training with a supervised work experience. **This is a variable content course that may be repeated for a total of 6 credit hours.** Does not count toward a Computer Science minor. 1-3 D

POWERED BY TINYMCE

What is changing? Check all boxes that apply.

- |   |  |   |                                       |
|---|--|---|---------------------------------------|
| <input type="checkbox"/> Course Code                | <input type="checkbox"/> Course Number ( <u>Check Availability</u> ) | <input type="checkbox"/> Title                  | <input type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity                                 | <input checked="" type="checkbox"/> Description |                                       |

Reason for proposed change

Students can enroll in this course multiple times if they have an internship that stretches over multiple semesters.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Routine or annual review/assessment of curriculum | <input checked="" type="checkbox"/> Faculty Input      | <input checked="" type="checkbox"/> Student Input |
| <input type="checkbox"/> Accreditation/certification compliance                       | <input type="checkbox"/> Review of catalog information |   |
| <input type="checkbox"/> Other (be specific):   |  |   |

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

10/22/2021

**Current Status:**

College Council Review

**Proposal Progress:**

03/08/2022 - Submitted by Department Head (Ajay Katangur)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal

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# MAKE YOUR COURSE CHANGE EASIER

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# Curricular Action Workflow



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## Change Course Proposal Form

**Submitted on 03/08/2022 by Ajay Katangur ([AjayKatangur@MissouriState.edu](mailto:AjayKatangur@MissouriState.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

CSC526 Methods of Optimization

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Enter parallel course number

CSC626 Methods of Optimization

How do these classes differ?

The students in CSC 626 are expected to complete an extra project.

Current online catalog description:

CSC 526 Methods of Optimization

Prerequisite: CSC 421 or MTH 421; and MTH 533. Convex sets, classical optimization of functions, constrained optimization, search techniques, linear and nonlinear optimization, applications to applied problems. May be taught concurrently with CSC 626. Cannot receive credit for both CSC 626 and CSC 526. 3(3-0) D

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

← → **B** *I* ~~S~~

CSC 526 Methods of Optimization

Prerequisite: CSC 421 or MTH 421; and **MTH 314 or MTH 315** ~~MTH 533~~. Convex sets, classical optimization of functions, constrained optimization, search techniques, linear and nonlinear optimization, applications to applied problems. May be taught concurrently with CSC 626. Cannot receive credit for both CSC 626 and CSC 526. 3(3-0) D

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What is changing? Check all boxes that apply.

- |   |  |                                      |  |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code                | <input type="checkbox"/> Course Number ( <u>Check Availability</u> ) | <input type="checkbox"/> Title       | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity                                 | <input type="checkbox"/> Description |  |

Reason for proposed change

MTH 533 no longer exists. Instead we are adding MTH 314 or MTH 315 as the prerequisite

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

10/22/2021

**Current Status:**

College Council Review

**Proposal Progress:**

03/08/2022 - Submitted by Department Head (Ajay Katangur)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

Copy As New Proposal



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Last Updated: 02/08/2022 11:01 Contact Information



# Curricular Action Workflow



Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - Change Program Proposal Form**

## Change Program Proposal Form

**Submitted on 03/08/2022 by Ajay Katangur ([AjayKatangur@MissouriState.edu](mailto:AjayKatangur@MissouriState.edu)).**

**Department:**

Computer Science

**Type of Program****Choose One:**

- |   |  |
|---|--|
| <input type="radio"/> Non-Comprehensive Undergraduate Major | <input type="radio"/> Option                 |
| <input type="radio"/> Comprehensive Undergraduate Major     | <input type="radio"/> Minor                  |
| <input type="radio"/> Graduate Program                      | <input checked="" type="radio"/> Certificate |

Does this program include any new courses?

- No  Yes (A corresponding new course form must be submitted to create each new course.)

**Title of Program Affected:**

Web Programming-Undergraduate Certificate

**Current Catalog Description:** *(Either cut and paste present description from online catalog **OR** provide as an attachment below)*

**Web Programming**

This certificate is designed to provide knowledge and skills in the field of web development, including programming, database design and development, web security, and multimedia applications.

Program requirements (16 hours)

CSC 130(3), 131(4), 335(3), 365(3); 515(3) or 545(3).

All candidates must satisfy the General University Certificate Requirements.

*Not Attached*

**Complete New Catalog Description:** *(Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] OR provide as an attachment below)*

↶ ↷ **B** *I* ~~S~~

Web Programming

This certificate is designed to provide knowledge and skills in the field of web development, including programming, database design and development, web security, and multimedia applications.

Program requirements (16 hours)

CSC 130(3), 131(4), 335(3), 365(3); **232(3) or** 515(3) or 545(3).

All candidates must satisfy the General University Certificate Requirements.

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*Not Attached*

Total Hours:

**What is changing? Check all boxes that apply:**

- Title change
- Adding option to an existing program (major)
- Deleting option from an existing program (major)
- Adding existing course(s) totaling  credits
- Adding newly created course(s) totaling  credits

***(Note: A new course proposal must be submitted for each new course)***

- Deleting courses from the program (major)

***(Note: A Delete Course Proposal form must be submitted if deleting course from catalog.)***

- Changing admission requirements
- Other

In program requirements, we are also allowing CSC 232 to be taken as an optional course. This will give them the choice of choosing 232 or 515 or 545.

**Reason for Proposed Change:**

Allow more flexibility for students

**What is the date that this new program was approved by departmental or program faculty? (MM/DD/YYYY)**

10/22/2021

**Current Status:**

College Council Review

**Proposal Progress:**

03/08/2022 - Submitted by Department Head (Ajay Katangur)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# Curricular Action Workflow



Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - Change Course Proposal Form**

## Change Course Proposal Form

**Submitted on 03/21/2022 by Toby Dogwiler ([TDogwiler@MissouriState.edu](mailto:TDogwiler@MissouriState.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG326 Marine Science I: Oceanography

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Current online catalog description:

GLG 326 Marine Science I: Oceanography

Prerequisite: MTH 135 and CHM 160 and CHM 170 and CHM 171 and BIO 101 and 111. Integrates physical, chemical, biological, and geological oceanography to provide a multidisciplinary approach to the fundamentals of oceanography. (Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi). 3(3-0) Su

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

↶ ↷ **B** *I* ~~S~~

GLG 326 Marine Science I: Oceanography

Prerequisite: ~~MTH 135~~ **MTH 136 or higher** and CHM 160 and CHM 170 and CHM 171 and BIO 101 and 111. Integrates physical, chemical, biological, and geological oceanography to provide a multidisciplinary approach to the fundamentals of oceanography. (Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi). 3(3-0) Su

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What is changing? Check all boxes that apply.

- Course Code
- Course Number (Check Availability)
- Title
- Prerequisite
- Credit Hours/Contact Hours
- Periodicity
- Description

Reason for proposed change

MTH 135 has been deleted and GLG faculty have opted to replace the requirement with MTH 136 or higher.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.

How did you determine the need for this change? Check all boxes that apply or specify other.

- Routine or annual review/assessment of curriculum
- Faculty Input
- Student Input
- Accreditation/certification compliance
- Review of catalog information

Other (be specific):

Request of the Registrar's Office because of the deletion of MTH 135

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

02/11/2022

**Current Status:**

College Council Review

**Proposal Progress:**

03/21/2022 - Submitted by Department Head (Toby Dogwiler)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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# Curricular Action Workflow



Missouri State / Computer Services - MIS / Curricular Action Workflow / **CAW - Change Course Proposal Form**

## Change Course Proposal Form

**Submitted on 03/21/2022 by Toby Dogwiler ([TDogwiler@MissouriState.edu](mailto:TDogwiler@MissouriState.edu)).**

**\*All fields require input**

This proposal applies to:

- An existing COURSE
- An existing REGULAR (e.g. permanent) SECTION of a variable content course.

Existing Course:

GLG547 Water Resources

Will this proposal need to be reviewed by CGEIP?  No  Yes

Will this proposal need to be reviewed by EPPC?  No  Yes

Is there a graduate/undergraduate parallel course to this one?  No  Yes

Enter parallel course number

GLG647 Water Resources

How do these classes differ?

The graduate version of the course has different assessment expectations, particularly, with respect to discussion board participation, exam questions, etc.

Current online catalog description:

GLG 547 Water Resources

Prerequisite: BIO 122 or GLG 110 or GRY 142; and CHM 160 and CHM 161; and MTH 135. An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with BIO 547. Cannot receive credit for both GLG 547 and BIO 547. May be taught concurrently with GLG 647. Cannot receive credit for both GLG 547 and GLG 647. 3(3-0) S

Revise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review prior to submission.)

← → **B** *I* ~~S~~

GLG 547 Water Resources

Prerequisite: BIO 122 or GLG 110 **or GLG 171** or GRY 142; ~~and CHM 160 and CHM 161; and MTH 135.~~ An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with BIO 547. Cannot receive credit for both GLG 547 and BIO 547. May be taught concurrently with GLG 647. Cannot receive credit for both GLG 547 and GLG 647. 3(3-0) S

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What is changing? Check all boxes that apply.

- |   |  |                                      |  |
|---|--|--------------------------------------|--|
| <input type="checkbox"/> Course Code                | <input type="checkbox"/> Course Number ( <u>Check Availability</u> ) | <input type="checkbox"/> Title       | <input checked="" type="checkbox"/> Prerequisite |
| <input type="checkbox"/> Credit Hours/Contact Hours | <input type="checkbox"/> Periodicity                                 | <input type="checkbox"/> Description |  |

Reason for proposed change

The instructors determined that the CHM and MTH courses were not critical to student success in the course. As a result the decision was made to simplify the prerequisites.

Does this change affect course assessment (e.g. student learning evidence/outcomes)?  No  Yes

Explain.



How did you determine the need for this change? Check all boxes that apply or specify other.

Routine or annual review/assessment of curriculum  Faculty Input  Student Input

Accreditation/certification compliance  Review of catalog information

Other (be specific):

Check if this is a non-substantive change.

What is the date that this course change was approved by departmental or program faculty?  
(MM/DD/YYYY)

02/11/2022

**Current Status:**

College Council Review

**Proposal Progress:**

03/21/2022 - Submitted by Department Head (Toby Dogwiler)

**Review Comments:**

No comments have been added to this proposal.

No review notes have been added.

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